Product 01068100 2-comp. EP sealer, water-based, low emission, coloured, silk glossy

1 General Data

Fields of application

VIASOL EP-S681 is used as a roller coating on magnesite screeds, but also on cement screeds without prior priming. Furthermore, VIASOL EP-S681 can be used to coat walls and ceilings and as top coat on homogenous and with quartz sand scattered water vapour permeable coatings.

Product description

VIASOL EP-S681 is a coloured, water-based, low emission ready-to-use two-component coating compound consisting of epoxy resin.

VIASOL EP-S681 is used as firm but slightly viscous, non-porous, jointless sealer that is permeable to water vapour. These coatings are easily cleaned and highly resistant to fuels and lubricants as well as most solvents and many chemicals.

Compared to traditional epoxy sytems this product shows good UV stability and weather restistance. In general, however, all EP products tend to yellow under UV exposure.

Depending on the processing technique and the degree of dilution, it may lead to light structures in the surface despite careful processing. This is systemic and does not affect product suitability. If in doubt, a sample area should be created in advance.

VIASOL systems

VIASOL EP-S681 is the sealer for the VIASOL systems:

VIASOL***PERM***
VIASOL***PERM SR***
VIASOL***PERM protective***

Care and maintenance

For a long-term preservation of the properties of resin floors, we recommend a regular cleaning and care programme. For further details see our VIASOL Care and Maintenance Guide. Before first use we recommend to perform a basic cleaning and initial care.

Technical support

For system build up possibilities and detailed information relating to the laying of VIASOL products, please refer to the VIASOL System Planner or contact VIACOR Polymer GmbH directly.
Phone:+49 7472 949990
E-Mail: info@viacor.de

(A) Technical Data		
Liquid mixture (A+B)		
1.	Solids content	70 %
2.	Density (20°C)	1.4 g/cm^3
3.	Packaging size (2-component container)	15 kg (12 kg A + 3 kg B) 30 kg (24 kg A + 6 kg B)
4.	Colours	VIASOL standard, silk glossy
5.	Shelf life	12 months in originally closed container
6.	Storage	Dry and frost-free at 10–25°C, avoid direct sunlight

(B) Technical Data		
Cured material		
1.	Adhesive strength (DIN EN ISO 4624)	> 2.0 N/mm^2 (concrete failure)

[1] Tested in the systems VIASOL ***PERM***, VIASOL ***PERM SR and*** VIASOL ***PERM protective***

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2 Application method

Substrate preparation

The substrate must be clean and free of dust and loose particles. All traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed. Cracks and cavities must be properly repaired. Before application the substrate must be well grinded and then vacuumed thoroughly. Magnesite floors must be treated with a solution of citric acid, which must be washed off afterwards using plenty of water.
Before application of the coating the surface of the substrate must appear dry. Roughness and bumps must be equalized in advance if required.

Application

The product is delivered in 2 component containers in the exact mixing ratio. Before starting the application, the material temperature must be close to the temperature of the air and substrate. The A-component is stirred for at least 1 – 2 minutes. Then the entire contents of the B-component are emptied into the A-component container and both are stirred for about 2 – 3 minutes using a suitable electrical stirrer. The inclusion of air in the stirring process must be avoided. The mixture should be poured into a different container and stirred again briefly. The material should be sieved during pouring in other pail (either with a paint filter with 0.6-1.0 mm mesh size, or with a household sieve with inlaid fly screen or similar fabric, mesh size <1 mm).We recommend the application by equal batch numbers.
VIASOL EP-S681 is poured onto the surface in portions and applied over the entire area with a short napped roller in a criss-cross manner. The formation of puddles should be avoided. In order to ensure a fast evaporation of the water, the relative air humidity should not exceed 85% during processing and curing.
To achieve an attractive surface two layers of VIASOL EP-S681 should be applied. For the first layer the product may be diluted with 3 - 5 %, for primers max. 10 % of water. The gloss grade and the typical structure of the coating depends on the grade of dilution.
The relative humidity during processing and during the curing time should not exceed 85% in order to ensure a sufficiently fast evaporation of the water. It is important to ensure that connections between two pouring steps of material do not dry up as they will otherwise be visible.
When processing water based coating systems, ensure sufficient air exchange. However, draft of air should be avoid. Different material consumption, too high air humidity and low temperatures can lead to visual impairments (gloss level differences).
Direct sunlight, high temperatures and low humidity cause rapid curing and should be avoided as otherwise it may lead to skin formation, approaches or visible rake marks).
Optical banding may occur in poor lighting conditions or under grazing light.

(C) Technical Data		
Liquid mixture (A+B)		
1.	Mixing ratio A : B	100 : 25 by weight
2.	Processing time (20°C)	approx. 30 minutes
3.	Application temperature:	10 – 30°C (min. 3°C above dew point)
4.	Rel. humidity at application and during drying	<85%
5.	Material consumption as sealer (depending on substrate)	300 – 600 g/m² undiluted 200-400 g/m² diluted
6.	Foot traffic (20°C)	after 8 – 10 hours
7.	Consecutive layer (20°C)	within 24 hours
8.	Fully capable of withstanding mechanical stress (20°C) chemical stress (20°C)	after 7 days after 28 days

For better clean ability, the product can be protected the next day with a transparent polymer dispersion. However, this increases the gloss level.

For cleaning of tools and other contaminations water is recommended.

Overcoating

It is not necessary to abrade the surface if the following coat is applied within 24 h. After 24 h, the application can only take place after a careful grinding of the surface.

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3 Further information

CE-Mark

CE Mark according to EN 13813
EN 13813 “Screed material and floor screeds – properties and requirements” specifies requirements for screed material for use in floor construction internally. Resin flooring and sealer coats are also covered by this standard.
For details see CE mark and Declaration of Conformity.

Decopaint-Guidelines (EU 2004/42/EG)

The maximum allowable VOC content for Product Category IIA j Type wb products (in the ready to use state) is:
Stage II (from 2010) < 140 g/l VOC
In the ready to use state, this product contains less than 140 g/l VOC.

Warnings and precautions

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of epoxy resin based coating materials must be observed.
Suitable protective clothing including suitable eye protection must be worn.

Disclaimer

All information in this technical data sheet is based on our current knowledge and experience. This does not release the applicator from performing their own tests as many application factors, beyond our control, affect the application of our product. No guarantee of characeristics or suitability for a special purpose can be derived from this information. All present data, descriptions, drawings, photos, ratios, weights etc. are subject to change without prior notice and do not represent contracted characteritics of the product.
Due to different materials, sub-bases and working conditions, no guaratee of an application result or any liability claims can be derived from these details or from an unwritten technical advice except for liability claims based on:
- damage to life, body or health resulting from a negligent violation of obligations or a deliberate or negligent vialation of obligation of a legal representative or assistant and
- if we are charged with intention or gross negligence.

The user has to test the products for their intended use. The user is responsible for following existing laws and orders and for observing third party trade mark rights.

As all VIACOR data sheets are updated on a regular basis it is the users responsibility to obtain the most recent issue (see www.viacor.de or contact us directly).

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